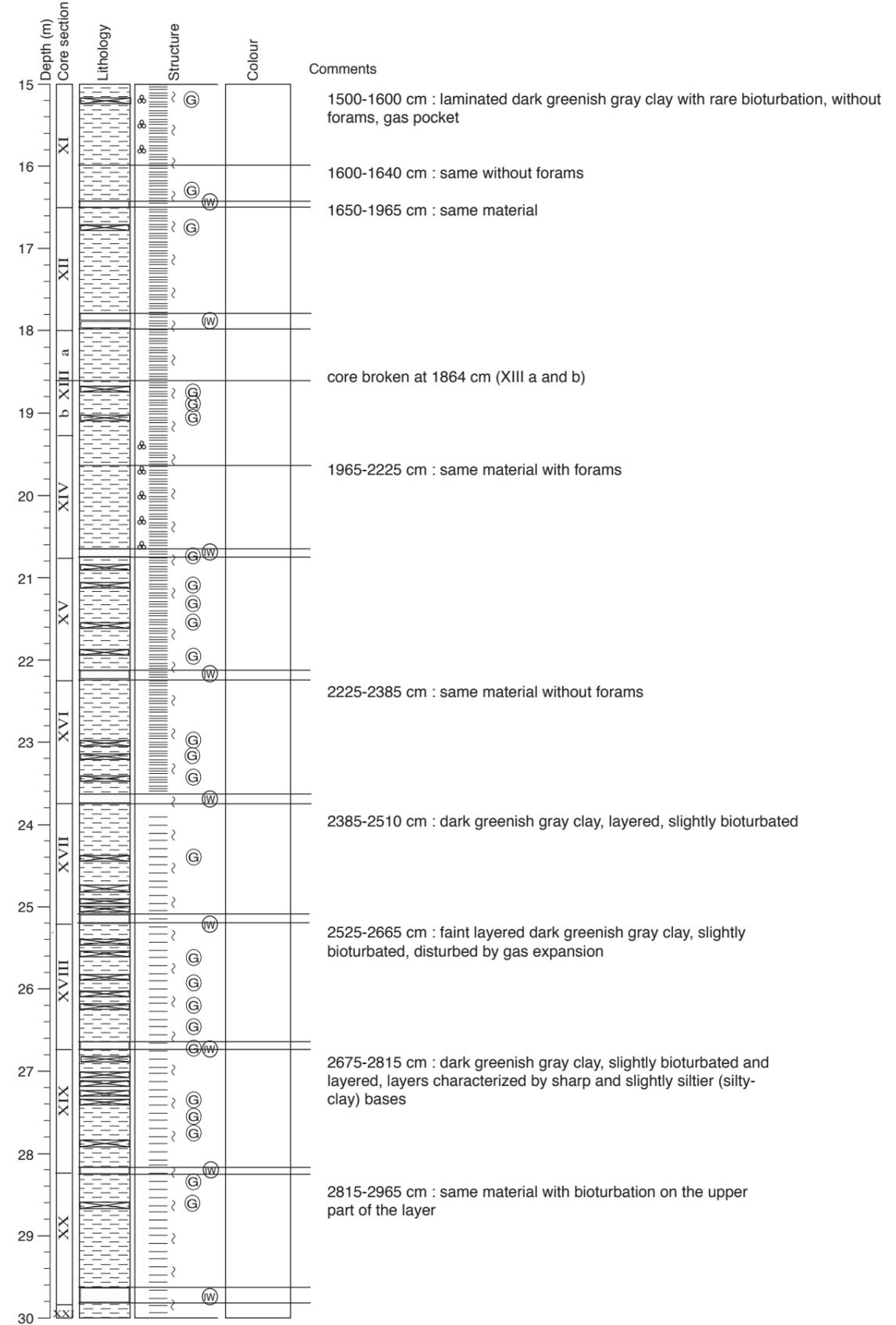
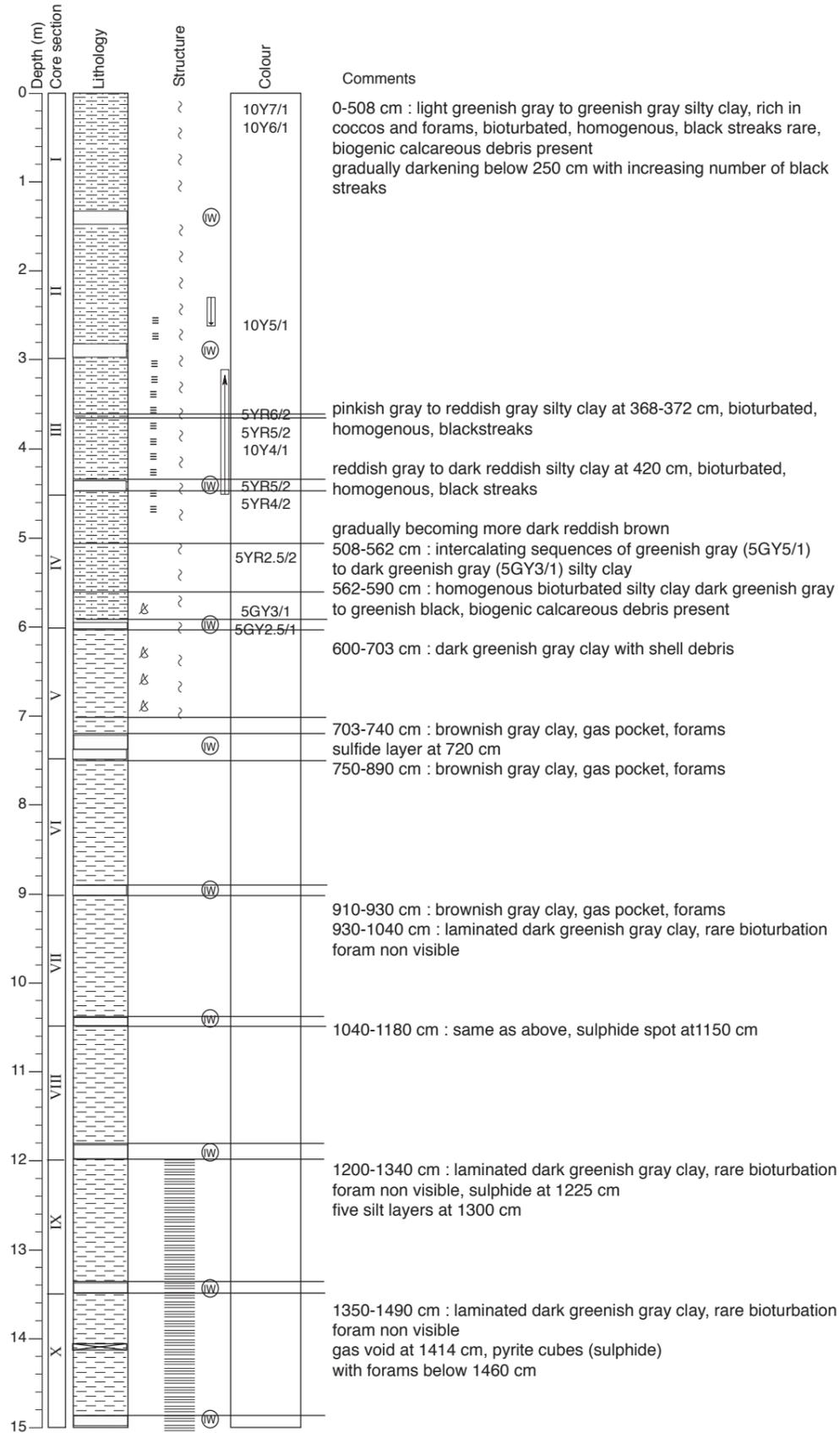
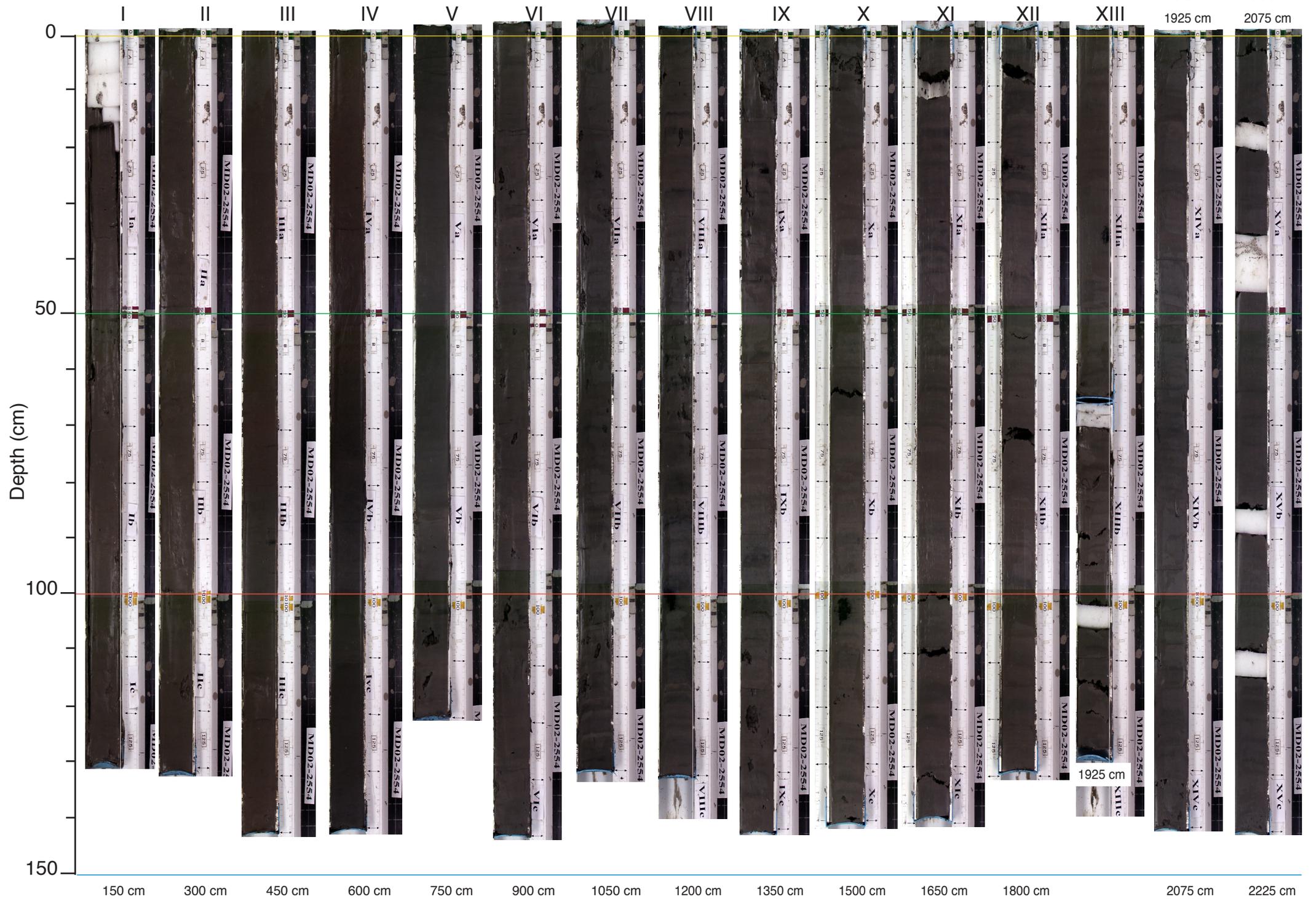


Core description



Depth (m)	Core section	Lithology	Structure	Colour	Comments
30	b XXI a				3000-3075 cm : dark greenish gray clay, slightly bioturbated and layered
31					3105 cm : end of the core
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					

MD02-2554 (sections I to XV)



Day: 09/07/02
Latitude: 27°47.00 N
Water depth: 602 m

GMT time: 19:36
Longitude: 91°29.94 W
Location: Bush Hill Basin

Core Number: **MD02-2554**

Corer type: Calypso II core
Corer length: 35.93 m
Core length: 31.05 m

Observations

Corer condition: Good

Core condition: Good

Sections and Sampling

Number of sections recovered and conditions:

21 sections of 1.5 m recovered, the last section measures 115 cm,
10-cm long sections were taken on every section, 5 sections of 20 cm were also taken

Onboard sampling and post cruise processing:

- Both the working and archive halves will be stored at Texas A&M University
- the 10 cm sections were taken for pore water analysis, (microbiology, and SO₄⁻, Cl⁻, CH₄, ¹⁴C, DIC) (MBARI, Univ.Tokyo)
- 1 bag of core top sediment was taken
- X-ray microtomography will be processed post cruise from 800 cm to the end of the core
- MST magnetic susceptibility, gamma ray attenuation and p-wave measurements were made downcore, at a resolution of 2 cm. Colour measurements were taken every 2 cm.
- USGS core measurements and activities : Elec. Resist ; Vane Shear , water content, (USGS-WH), Headspace Gas (USGS-Menlo Park), Thermal conductivity (Univ.Victoria), structure (ODM, PNNL)

Summary of physical and sedimentological observations:

Dominant lithologies: 0-600 cm, greenish to dark greenish gray silty clay with coccoliths and foraminifers. Bioturbation slight, black streaks common along some intervals. 600-1200 cm, dark greenish to brownish clay without visible foraminifer. 1200-3105 cm laminated dark greenish gray clay with little bioturbation. Lot of voids due to gas expansion and gas pockets. Rare to absent foraminifers.

Minor lithologies: None